NATIONAL SCIENTIFIC CONVENTION.

American Association for the Advancement of Science.

Cleveland Meeting-First Day

CLEVELAND, July 28, 1853. At the meeting of the Scientific Convention this day, immediately after the names of the newly elected bembers were duly enrolled, and other business transacted, [published in full in the New York Herald of yesterday.] the President announced that the first regular paper in order would be read by William C. Reddield, Esq., of New York, upon the The value of the Barometer in the Navigaof the American lakes."

Mr. Redfield then came forward and read the following interesting paper:—

The great American lakes, which have their floal outlet in the river St. Lairance are hardly more remarkable for the exitent of their surfaces, and their great cammercial advantages, than for the destructive storms with which they are visited. At times, the navigator of these pluvial flows perhaps mas are of the approaching tempest field in burstey upon him with sudeen and resistess fary, while he is expressed on all adoes to the propriating of deaperson shores. When a storm exhibits an easierly wind, expens shores. When a storm exhibits an easierly wind, expens shores. When a storm exhibits an easierly wind, expens the Atlantic close the direct force of this sind seldem exwised to the great lakes. Every great storm when viewed in its geographical extent, is found to compile a great eye he or eddy ing circuit of wind to which the dirst wind presented to the observer in these habitudes is from an easierly er southern quarter of the horizon attended, if not preceded by a fail of the baseometer—both of which phenomena are due to the mortheasterly progress of the exploses and its turning movement leftwise, around its own arise of gyration. The ocean surface affords not a pediment to the full action of the easterly storm winds upon our rea cast—while the diverties of the land surface and the elevation of the country, commonly prevent any direct excession of these ocean winds to the surface of the train-Alleghandan regions. These same clustractions serve also to leasen the violaces, on the atlantic alongs of the streng westerly winds which a national exclusion of the excessions of these conditions are in some degree reversed. As the first winds of the darancing cyclone blow from the eastern or anushment of the promise of the continuous and elevations of the continuous and elevation Mr. Redfield then came forward and read the folcountry of the exclose has passed the station of the conserver, the harmater, which has fallen in the meanime to its lowest potot, commences rising, and the streeting of the wind becomes westery, and its force is now succeedy and greatly increased being compounded of both the pregressive and to attive velocities of the sorm. It is quite probable that these violent westerly winds, which belong to the rear portoin of the eyelone, are greatly after an enferced by the rapid and coller current of the next higher stratum of atmosphere, which coincides in direction. Geographically conseated moving that the heavy in the barometer, the full power of the whiling tempest, in its regular propers, falls moon and sweeps over the surface of the lakes while the auxiliary force last noticed may list in gying to those later westerly winds of the cyclone an simost irresimible force. A sontinued pories of cyclone, varying through all degrees of energy, anient, and neterological effect, is ever passing over the temperate and nigner latitudes of the earth, in conformity with the great law of armospheriz eron actions, and producing those alternations and successions which are reographically known as the variable winds. As regards the most active and stormy of the North American cyclones, that but referred to the well known fast that the first or most advanced portion of each c, clone subsists easterly or restatively winds, the particular direction when locally coesidated being determined by the positions of the ebectual processing of the storm what the relative movements of the entire system is seen to produce a depression, or fall is the position of mercury in the tube of the borometer. Now, is the progress and degree of this depression of the entire system is seen to produce a depression, or fall is the position of mercury in the tube of the observation of the entire system is seen to produce a degree of the degree of the borometer's depression. The avisition about the borometer has afford by the avisor of the west has a find of th in a the 'storm yet its subsidence is sometimes found equal to ten inches, or even more, below the ordinary mean level of the instrument. Whenever the fail of the harometer exceeds the ordinary extent of the oscillations seen in moderate storms every proper precasting amoud be taken to avoid any hexardaus exposure to the approaching tempost; and, if its fail be extraordinary in extent or rapidity, prudence requires, at least for saling vessels, a continuance in port or the shelter of a friendly harber she at the se obtained. When upon the lakes, the time necessary for reaching an accessible port should barly be taken into account, in order that the most proper course of procedure may be esseenably adopted. If mecessary desardae is port or in seeking refage should remesting be chaused by attending to these indications of the barometer, the same attention senial still oftener lead to the gaining of time in cases where unfavorable appearances of the wester might other who deceive the papearances of the wester might other who deceive the papearance of the wester might other who deceive the papearances of the wester might other who deceive the appearances of the wester might other who deceive the parameter. A convenient ambattante for the barometer has lately come into use, which is called the Anoromi Barometer. It has advantages in compact sees and less lability to Gatal injuries, with greater facility in the reading of fine in dicastoner. On the other hand, it is fable to gradual changes in its standard reading, and honce requires an occasional reference to a good scandard baromater, for the surpose of new adjustment. With this mental are cannot barometer, and we's mitted for late navigation.

At the conclusion of Mr. Reddield's address, the

At the conclusion of Mr. Reddield's address, the President called upon Professor Loomis, of the New York University, who read a paper upon "The Great Hail Storm in New York City." The paper of the Professor was very long and tedious, and would hardly impart any new views on the old and backnied subject of storms. It was very readily controverted, and most successfully by one or two questions by the President. The Professor was unque tionally in too much of a hurry to present a paper. It awakened a long discussion, in which Mr. Red-field, Professor Bache, and others took a prominent field, Professor Bache, and others took a prominent part. It was found that different gentlemen had quite different isopressions of the same general facts; from which we may infer that it will not be easy to establish a theory, so long as the facts on which it must be based are not estated. Professor Bache came to the conclusion that we would have to observe tauthfully many years longer, before we could settle on sufficient reliable data on which to base indistruct die theories. This subject has excited longthy discussion at every meeting of the association, without any very reliable results.

out any very reliable results.

Prof. Sr. Jons, the Secretary, then road the Standing committees.

The following resolution was then passed:

The Frequer and Permanent Sec every shall be

The Pressurer and Percament See every shall be, and archereby authorized to supphase volumes of the proceed-ings of the association for the purpose of supplying the It is to be recretted that the first volumes were

It is to be regretted that the first volumes were published more as private enterprises than at the expense or control of the association.

The following was also received:—
The Caratores of the Chemiand headens of National Sensean teapeningly fastic the American Amortane for the Advancement of Science, to visit their museum at the Medical College, and make such use of their specimens as may emberge their purposes.

This is a very fine collection, made by Prof. Kirt-

band chiefly, and is replete in ichthyology and orn thology, for which he is much distinguished. The general session then adjourned.

SECOND DAY-GENERAL SESSION.

FORENGON. CLEVSLAND, July 20, 1853.

President Pierce took the chair, and aunounced. the first business, the election of members. The following gentlemen were unanimously elected :-Robert Clark, Con. O ; H. A. Johnson, M. D., Chicago William S. Van Denzer, M. D., Boffalo, N. Y.; David H. Shoffer, Cin., O.; James McElroy, Delaware O.; Lorin Blodgett, Washington, D. C.; J. Kirkontrick, Ohio city. George Willey, Cleveland; R. R. Saod-lerd, Riga N. Y.; B. Forgate, M. D., Auburn, N. Y.; L. Biggs, M. D., do.; Benjamin Chose, Natchez.

Professor Roche of the Coast Survey, then reathe following excellent paper on the discovery of a deep, sea bank, in the examination of the Lieutenaute Com. T. A. Craven, J. N. Madist, U. S. N. assistants in the Coast Survey, with remarks on the

character of the bettom, by L. F. Pourtalis, comicated by Professor A. D. Bache, Superinter United States Coast Survey.

character of the bettom, by L. F. Pourtalis, communicated by Professor A. D. Bache, Superintenden United States Coast Survey.

The gulf stream has been explored in consection with the Cuest Survey by running sections perpendien with the Cuest Survey. By running sections perpendien with the Cuest Survey by running sections, and exploring the temperature, and as far as practicable, other phasomera of the attent colusts in its course, and exploring the temperature, and as far as practicable, other phasomera of the stream at factors on the surface to depths of six, and in some cases of twelve hundred fathous. The stations being selected at apid changes centring in the portion of the stream which they were intended to explore. In the exclusions which they were intended to explore. In the exclusions made in Jone last the hydrographic party of Lieutenant made in Jone last the hydrographic party of Lieutenant Commanding Carven, was instructed to explore the Commanding Carven, the taking up one across it from St. Augustice next from St. Simon's, Georgia, from the stream of the stream, next taking up one across it from St. Augustice next from St. Simon's, Georgia, it is also the stream at depths of our Charleston was found in the stream at depths of our Charleston was apported by Ideal. Commander Mofflit's party between its 2d and the stream at depths of less than six nundred fathoms, the lection being brought up. The limitude reached was 77 deg 12 min. On the eleventh of June Lieut Commanding Craven having crossed the Gulf Stream without industry and supposed deep hank at the caph of 400 tathoms, came upon a deep hank at the caph of 400 tathoms, came upon a deep hank at the caph of 400 tathoms in lat 28 deg 24 min N., and ion. 17 seq (3 min, lond usaked thus to a position corresponding with the Charleston section, where it had been assued by the other party, and bottom brought up from 3 0 fachome, in lat. 31 ceg 37 min, lond 30 septembers of the fine surface of the security of the security of the security of the securit

SECTION A, OF PHYSICS AND MATHEMATICS. Prof. Joseph Lovising, of Cambridge, Chairman. Prof. W. Chauvenet, U. S. Naval Academy, Sec

retary.

The Standing Committees consist of its officers, and Profs. E. Loomis, H. L. Eustis, and J. Win-

and Profs. E. Loomis, H. D. Backs, and lock.

The first paper read before this section was, "On the resistance of vertical plates of tubular bridges, by Herman Keampt, Superintendent of the Pennsylvania Central Railroad, read by Prof. Eustis." As this paper is very practical in its nature, and from one of the ablest men in the country, I will give it

vania Central Railroad, read by Frot. Edsals. It is this paper is very practical in its nature, and from one of the ablest men in the country, I will give it to-morrow.

Second paper —"On the Tides at Key West, Florida, from observations made in connection with the U.S. Coast Survey, by Prof. Bache." As this paper is practical and valuable, I give you the following abstract:

The results are from one year's hourly observation of the tides at Fort Iaylor. Key West. The tides e-bo sed flow twice in the twenty four hears, but the durnal irregularity in height is relatively large amounting at a mean to fifty five feet, reaching in extreme cases, eighty-three feet. The mean rise acd fall of the tide better about four-stem feet, a knowledge of the laws of the distrain irregularity by which accessive high or low waters may differ. It very important. The corrected establi himentics Key West is 9 hours 23 minu es. The disgrams show the peculiarities of these tides by tre daily curves. There being two tides in the day, the observations sufficied a discussion by the ordinary measod, as by those adopted by me for the tides of the Guif of Mexico. A comparison of the results has been instituted the half monthly irregularity is shown in which I had monthly irregularity is shown in which I, and the accumpanying disgram, the law of tute val and height is compared with theory, and the differences are very small. The transit to which the tides should be retried in the second before the high water. The constants are reduced from the formula. The distraction of the oftensal inequality in interval is made with theory. The discussion is cantioused by the usual method, that of high water is greater than that of lew, in the wroperition of seventy-inde to saxty one. A comparison of the oftensal inequality in interval is made with theory. The discussion is cantioused by decomposing the curves of observation into two—a sent dimmal and curved from the meximum ordinates and aconvention being the compared to the difference of eight water. Th markably with theory, as is shown by a table and disgram, in which their results are compared. The explanation is given of the diff-rent laws followed by the inequalities of high and low water. The diagrams show different cases of interf-rence waves in which the maximum radiates and the distance between the high waters is made to vary. The sum of the squeres of the diff-rence between theory and the computed results after correcting for parallax of the moon, is less than an hundredth of a foot for the whole year. The discussion of the value of the interval between the create of the wo waves is in progress. A remarkable change in the mean level of the waver at Key West, progressive throughout the year, was noticed on reducing the results. The high water of neat tide is one half of the year. This is probably water of spring tides in the other half. This is probably due to the stode, those tending to raise the tide in the harbor prevailing during the high of the year, and those needing to depress it the other. This hypothesis has not occas fully examined but approximate results are pressited, which render its sociates probably. It is not a little curious that communing the results for the mean level in opposite parts of the year there comes out the curious tile pointed out by Prof. Airy, and not hitherto fully deduced from osservation one basing half a sclar year for its period, and the other half a decimation period of the most. A diagram is given to show that the results, when grouped by the moon's and sun's declinations, conform to the law of change. They come turing as a criterion of the wave theory, or equilibrium theory, the result for the mean level in the proposible to determine much on this subject by the moon's and sun's declination, contour to the law of the group to show that the results, when grouped by the moon's and sun's declination, contour to the law of the group the constant to be zero, and shoes for the san, to be one third or even greater.

Prof. Pience remarked on this, that he thought it impossible to determine much on this subject by the their momenters; that the mathematicians could never make a safe summary of all these results; that as they were uncertain, and must fail at last, it was sertainly best to get at some theory as soon as possible, whether it be the equilibrium theory or any other; and that this could be done by observations only, such as those instituted by Prof. Bache.

The third paper was "The Zodiacal Light, the periodical sphearance of Meteors, and the point in space to which the motion of the solar system is directed. By Daniel Vaughan, Cincinnati." Read by Prof. Chauvenet. This paper supposed that the zodiacal light was caused by the collection of a large number of small mesors in the path of the sun. The paper was one of speculation rather than mathematics.

At the close of the reading, Prof. Gould wished

At the close of the reading, Prof. Gould wished the author of this paper was present, and could show some of the mathematical formule hers referred to. He thought it a curious paper, full of ingenious specialitions and fancies. We are very ignorant of this zodiacal light. We have numerous and differing theories. We must leave pure speculations, and turn to observations and facts.

Professor Pierce thought the effect of the resisting medium would be to bring the axis of the orbit of all the cometary bodies in a line at right angles to the direction of motion of the medium, and flustrated his opinions by a diagram.

Professor Henry said that he agreed in the main with the remarks of Dr. Gould, but thought that perhaps Dr. G. was too severe upon speculation. Speculation, restricted by proper conditions, is very useful to science. It should, of course, be so conducted as to lead to an exact discussion upon mathematical basis, while pure speculation, founded on vague analogies or mere imagination, should be discountenanced.

The fourth paper was "On the senthesat monecon

The fourth paper was "On the southeast monagon

The fourth paper was "On the southeast monsoon of Texas, the northers of Texas and the cour of Mexico, and the abnormal atmospheric movements of the North American continent generally. By Lerin Blodgett, of Washington."

Before this paper was read, Professor Hasky rose and remarked that a large series of meteorological observations had been insututed by the Smithsonian institution by reason of the fact that Mr. Smithson had bequeathed his money for such purposes, for the advancement of human knowledge. These observations of Mr. Blodgett had been made under the anapices of the institution, and should be credited to tepices of the institution, and should be credited to the most make under the property of the hours and all these papers should be credited as embating from the institution. Mr. Blodgett's observations were alumble, and as such should emanate from the proper promotive source.

Mr. Blodgett's paper endcavored to prove, among other points, that the monsoon of fexas, or south-

Mr. Hodgett's paper endeavored to prove, among their points, that the monson of fexas, or south-net wind, was caused by the air being heated on he exposed surface of the earth, and rising so-picity as to induce an inflaming current from the solf six months in summer and vice versa.

After the residing of Mr. Blodgett's paper, Professor

Gulf of Mexico, or further back, might be so garded. At any point of this region, or on the G itself the degrees of heat and tariff action might attained which would produce the phenomena

Mr. Rapping asked if the Northers

Mr. Reduced at the more southern point, Vera Crez, for example, before appearing at Gonzales.

Mr. Bloodert said, not uniformily, as he was assured by residents.

Mr. Reduced thought more careful investigation would show that they uniformily began at the more southern point.

Mr. Loomis asked whether there was a regular periodic in the region examined by Mr. B.?

Mr. B. pointed to a region in which the southeast wind, or momeon prevailed for about six months from the Gulf. During the remainder of the year, the resultant direction is from the land; but the directions are very variable, as in portions of the continent.

tions are very variable, as in portions of the continent.

Professor Bache said that some interesting results connected with the subject, were in fossession of the Coust Survey, deduced from observations of winds at Galveston, from which he inferred the prevalence of northwest winds at certain seasons.

Mr. Redfield die not believe in "winds of aspiration," but that if observations were sufficiently extended, evidences of a rotation would be found. The norther being at other places at the same time an easter, a wester, or souther.

Professor Bache inquired what distinction Mr. B. made between the north wind at Key West and Mobile Port and the northers of Texas? He believed them degrees of the same phenomenon.

Mr. Blodgett answered that they had features of identity, but that the norther, so far as identified, as to justify the separation of the district in which the similar phenomena occurred, but in a modified form.

SECTION B .- NATURAL MISTORY AND GEOLOGY, MIN ERALOGY, CHEMISTRY, GEOGRAPHY, AND ETHNO

Chaimattee of Section B—Frotessor of Sections, Chaiman; Professor H. L. Smith, Secretary; Dr. J. L. Riddle, Dr. W. I. Burnett, Dr. Jos. Leidy.

This sect on was organized, with a very large number of gentlemen and ladies in attendance, as in the case of the Arkansas River. by Dr. J. A. Warder, of Chrimati." This was a voyage from Fort Smith to Napolean, at the mouth of the river. The lecturer divided the river into an alluviai region; a sertiary and cretacious, an eruptive, a metanorphic orplicated, and the carbonifarous. He traced the connection between the slates and metanorphic orplicated, and the carbonifarous. He traced the connection between the slates and snotkoness of the coal measures. A large o llection of specimens, minerals and fossils were exhibited in illustration of the paper, and a list of the plants observed, was appended to the paper, simply as "indications of the botany of the State." Dr. Warder's paper was quite able and will, with the elaborate map by which it is accompanied, be found very useful to all such as would investigate those regions. We trust that the whole outline map will be engraved.

The second paper was "On the Blood Corpuscle—holding Cells, and their relation to the Spleen, by Dr. W. I Burnett, of Boston."

The third paper was on the "Origin of Quartz Pebbles in the Sandstone Conglomerate, and the Formation of the Silicious Stratified Rocks, by Prof. J. Brainerd, of Cleveland."

Prof. Brainann stated that at the Cincinnati meeting of the association he had presented a paper "On quartz pebbles of the sandstone conglomerate, and reasons for rejecting the theory of water detrition." In this paper the subject was examined very briefly, that in consequence of Dr. Newberry having presented a communication at the Albany meeting, he felt called upon to present the subject more fully before the association. The theory of Prof. B. is simply, that the quartz pebbles of silicous conglomerates, the subscription of silex from solution, and that the theory of these most subscription of sil

Following this, the Professor undertook an elabor

Following this, the Professor undertook an elaborate detail of the sources and mode of production of this silex in solution, citing in the end the flints or houstons of the limestones of Tennessee and elsewhere, as having the same origin as the conglomerates and sand-tenes.

Dr. Newberrsy remarked, in reply to the article of Pref. Brainard, that this discussion had arisen from the di covery by Prof. B. of some interesting specimens, in which the impressions of fossil plants were as distinctly transmitted to the pebbles which are desseminated through the carboniferons conglomerate, as to the interspaces of undurated sand. Prof. B. accounted for the existence of such specimens by supposing these quartz pebbles to have been formed by segregation of sinceous matter, subsequent to the deposition of the rock, or by some similar process—and not as generally supposed by the attrition of fragments of quartz rock. Dr. N. said that he was compelled to draw a different inference from these sude specimens from that deduced by Prof. B; that Prof. B,'s theory, if accepted, would entail an entire revolution in regard to the mode of formation of not only the important rock in question, but of a large part of the siliceous sedimentary portion of the earth's crast—that he would rather endeavor to flud some mode by which these pebbles might have been eroded subsequent to their attrition and deposition—that silica was so soluble that it was readily taken up by a variety of sgenta—water alone, alkaline solutions, having so wide a range of comitination that there was no difficulty in probles might have been eroded subsequent to their attrition and deposition—that silica was so soluble that it was readily taken up by a variety of agents—water alone, alkaline solutions, having so wide a range of combination that there was no difficulty in the way of referring the crosion of these pebbles to chemical action. He was confirmed in his adherence to the theory of attrition by finding in this rook, mingled with the quartz pebbles, rolled fragments of iasper, trap, shiceous slate, acc., ali of which were certainly transported and rounded by attrition. He had also seen recently, on Lake Superior, in localities where the Potedam sandstone—the quartz and trap—were so associated together; a conglomerate forming on the beach, which could not be distinguished from that of the carbonifeous era. The sandstone broken down, gave the sand, the quartz, Jasper, trap, &c., rolled into pebbles absolately undistinguishable from those of the carbonifercooe conglomerate, either in number, position, form or mineralogical character, the surface sand being rippled in precisely the same manner. Dr. N. had never seen anything in the structure of the pebbles in question that tooked like a concretive structure—but in the contrary they had the precise structure but in the contrary they had the precise structure of maxive crystalline quartz. In reference to the mineral origin of coal, advocated by Prof. B., Dr. N. said he must join issue with him, because, first, coal is associated with the impressions of plants—cach plant being coated with a pellinle of carbon, corresponding to the size and density of the original plant; second, all coal may be shown to be composed of vegetable tissue; third, coal bas been formed by artificial processes, of which he cited some new and interesting instances.

Prof. Hall, said he had been present at a former meeting, when this subject was presented by Prof. Brainard, but at that time the remarks were mainly confined to certain phenomen exhibited by specimens presented to the concretive structur

all cases examined. The specimens presented before the association consisted of randstones, conglume-rates, crystalline quartz, hornstone, flint, &c. The hornstone from the Tennessee mountain had no ana-logy whatever with the neighbor of the conglomerate, for was there any similarity between crystalline

peculiar circumstances, these madstenes would assume the character of the quarts rock. He doubted that the san istone and conglomerate could have been derived from the so-called primary rocks of the country, for those of New Eugland were he cantended, of the same age as the unitered rocks of the silurian and carboniferous system. A pebble was shown Professor H., which was claimed to have been flattened by pressure before induration, but which he was satisfied owed its form to its original cleavage, and the two flat faces presented evidence of the cleavage surface but partially worn. He had never seen a pebble flattened after deposition; the flattened surfaces represented as resting on shale; were all corroded as if from solution after deposition, not one of them presented on this flat face the smooth and worn condition of other pebbles or other parts of the same pebble. He denied that there was any similarity between these pebbles and nodules of flint is chalk. Pebbles are frequently fractured at the time of or subsequent to their deposition, and frequently cemented together by silicious matter in solution and percolating through the rock. Professor Hall remarked that the views here advanced, and the collection of specimens having so many different origins, presented as of one origin, were not only striking at the foundation of all our pre-conceived notions, but against facts, and their interpretation, as given by all geologists for centuries.

After the assembling of the session in the afternoon—
Pof. Branner expressed a desire to have the sub-

all geologists for occurries.

After the assembling of the session in the afternoon—

Pof. Brannerd expressed adesire to have the subject farther discussed, and remarked, as Prof. Hall
had expressed a conviction that some of these siliclous formations were due to allex in solution, why
might not all be due to the same cause? He here
repeated some of the arguments of the morning,
remarking upon a pebble when a minute crystal of
quartz had formed upon the surface. This he attributed to the same cause, and to the same time as
the formation of the pebble. He farther insisted
upon his lines of pebble without admixture of sand.
The ripple mark, and other markings, he appeared
to consider of small importance.

Prof. Hall, in reply, said—That although there
were one or two points to be noticed, yet he apologised to the section for consuming time in a subject
of this kind; but since the paper had been read, and
would at pear as baving been read to the association,
it ought not to pass without refutation, and for this
rease, he would speak. He would tarely say, however, that so long as Prof. B. interpreted facts and
phenomena so differently from hims if, and from all
other geologists, there was little hope of understanding each other. He said that Prof. B. ought to know
that the ripple marks and other phenomena exhibibited, could not take place except in a mass of sand,
when the particles were to move among themselves,
and that such a condition could never supervene
upon a mass of silex precipitated from solution. The
absence of fossil shells, which had been insested on was
not true, for in southern New York, and in Pennsylvania, there were large areas and a considerable
thickness of this conglomerate where fossil shells
were abundant. The valves were opened, and the
interior filed with sand and pebbles. The lines of
pebbles claimed by Prof. B., to be without admixture of sand, he repeated, were not so—sand filled
the interstices in all cases. He here endeavored to
show Prof. B. the difference in stru

geological periods, and the condition of quartoze or silicious deposits in formations of different ages and origin.

I noticed many new members since yesterday. Among them are Prof. James Hall, Albany; E. B. Hunt, U. S. M., Eng.; Prof. A. Caswell, Providence; Prof. Stephen Alexander, Princeton; Prof. Chas. Hackley, Columbia College, New York; H. Stausbury, U. B Eng.; Lieut Chas. Wilkes, Washington; Prof. C. M. Mitchell, Cincionati, O.; Prof Coffin, Washington; Mr. Chas. Wentworth Dilke, and Prof. John Wilson, London, England; who are the British Commissioners to the New York Exhibition, and Hon. Wm. Mitchell and his daughter, Miss Maria Mitchell, of Nantucket. You will recollect that Miss Mitchell is distinguished as the discoverer of a comet, and was elected a member of the association at the New Haven meeting. She is not relaxed to Prof. Mitchell of Cincinnati.

Thus far the meetings have been full, and very entertaining. The attendance of prominent members is very large. The number of papers are very great, while there appears a hearty good will among the members in dissecting one another, as in the case of Prof. Hall with Prof. Brainerd, as you perceive by my report, and Dr. Gould with the less distinguished Mr. Vaughan of Cincinnati. This is perfectly right. The association has hitherto been flooded by apurious papers. They have not been sufficiently challenged by the Committee of Censorship, and as long as the committee is forced for wait of time to fall in this, it will become the duty of members at the time when such papers are presented. It is supposed that the published proceedings of the association in cliente the exact condition of science in the country, and that whatever is printed in the vitame is right. Thus, much error has hitherto crept into the volume; some of the grossest errors. I have never heard so much discussion at a meeting. The members seem detern incd to view things, and men, I might say, elementally.

determined to view things, and men, I might say, clemer tally.

The meetings have been graced by the beauty and talent of Cleveland, and also by the families of a large rumber of the visiting members, who are attracted by the Western tour, to this beautiful city, and the doings of the association.

Thus concluded the proceedings of the forenoon of the second day of meeting.

T. R.

Fix Months' Crime in Boston.

[From the Bostor Times, July 29]

The semi-annual report of the Keeper of Suffolk ounty Jail to the Inspectors of Prisons, July 2014 that there have been committed during | Ast six months: - 3,730 | Males 3,550 | Crimitals 165 | Females 746 Total 4 276

Total...... 4 276 Stubborn shides.
Rio:
Reacuing prisoners.
Attamnotoertort money
Abduction
Not paying Railread
fare
Debt rs.
Switnesses:
Committed by centables, police offiners,
and watchinen for examination for examination for examination for various
offences, and not remanded by order of
manded by order of end
Eccurry from House of
Correction
Fortery
Fact criving in the street

Fast criving in the street 1 Cem satted by cenetaGaming 4 bles, police efficies,
Kreying brothels 17 and watchwen for exIllegal coting 1 amination for various
Ineanly 1 feeeing the country 1 the Court 2,900
Lareny 400

There have been committed within the last six months, for the non-payment of fines and costs im-posed by the Police and Municipal Courts, 694. Out of this number there have been discharged, by order of the Police Court, 422; paid fines and costs at the

of the Police Court, 422; paid fines and costs at the Jail, 246; and 26 now remaining in jail, anpaid. There has been no escape, and only one death—Christopher Twombly, committed by order of the Police Court, May 12, on a charge of being a common drunkard, died May 23d, of deliram tremens and typhoid fever, according to the verdict of a coroner's jury.

The above report shows an increase over any former, report of more than one-third, and also shows that the morals of our city have taken the retegrade march, at least, for the last six months; and should crime continue during the year in the same ratio as for the six months named in the above report, the number of commitments would far exceed eight thousand. At the time the new jail was under process of crection, and even after its completion, there was much said against the city authorities for their foily and extravagance, in building so large and extensive a structure for the accommodation of prisoners, thinking it impossible ever to have a sufficient number at one time to fill it. There are two handred and twenty cells in the new juli, and each cell in tended and formished for one present only. During number at one time to fill it. There are two hondred and twenty cells in the new jail, and each cell in tended and farnished for one prisoner only. During the months of February, March, and April, the daily average number was about two hundred, and at one time it ran as high as two hondred and thirty; so that it can be readily seen that in a little more than one year after it completion that every cell constants have been occupied, besides leaving a respectable surplus to take lodgings in the lock-ups at the gate, which were intended for those committed by the watch during the night. These leaking which surplus to take lodgings in the lock-ups at the gate, which were intended for those committed by the watch during the night. These lock-ups, which have so often been complained of, as being too small in size and too limited in number for the accommodation of this class of prisoners, are now being enlarged, and will in a short time be ready for occupancy. When completed, they will be sufficiently large to accommodate fifty prisoners. And from present appearances we may asfely judge that there is more to be feared that the jail proper will soon have to be enlarged than there is of its being too large, as formerly represented.

A SLAVE OF GEN. WASHINGTON AT THE WORLD'S FAIR.—The Monongahela (Pa.) Republican says that there is yet living near Cookstown a slave of Gen. Washington's. He is 424 years of are, and can walk six talles in a day. He is so old that his fingers and tees are nearly all white. He belonged to Washington's when he owned what is now known as Washington's Pattern which Paragraphics. After the residing of Mr. Biodgett's paper. Professor Caswall, asked where the besting surface which produced the fitting of the six, was attracted?

If Boodstre abswered that any of the land on the formula of the six of the control of the fitting of the six of the six of the fitting of the six of the six of the six of the fitting of the six of the six

Special Rooting of the Board of Ben JULY 29 .- The reading of the minutes of the last

COMMUNICATIONS.

From J. C. Luckey—Asking to be employed by

the Board. Laid on the table. From Wm. Drees-Relative to furnishing his school in Forty-first street. To Committee on New

On motion of Dr. FELL, a committee was appoint to inform the Public School Society that this Board is now in session, and invite those members whe have been appointed commissioners of common schools in pursuance of the act passed June 4, 1853, uniting the two systems, to take their seats as members of the Board of Education. Adopted; and Messrs. Fell, Beekman and Vultee were appointed as said com-NEW COMMISSIONERS.

mittee.

NEW COMMISSIONERS.

The President announced the following as the commissioners appointed by the Public School Society:—Wm. P. Coolidge, E. C. Pierson, J. W. C. Leveridge, T. B. Stillman, Israel Russell, John T. Adams, Joseph Curtis, Henry H. Barrow, Joseph B. Collins, Linus W. Stevens, J. F. DePeyster, Benj. R. Winthrop, Wm. H. Neilson, Peter Cooper, John Davenport.

Dr. Feld, reported that the committee had performed the duty assigned them, and took pleasure in now introducing the appointees of said society to the Board.

Mr. C. H. Smith was appointed President pro tem.

Mr. Benedict offered the following preamble and resolutions:—

Whetees on the icint application of this Board and

Board.

Mr. C. H. Smith was appointed President pro tem.

Mr. Benedict offered the following preamble and resolutions:—

Whereas, on the joint application of this Board and the Public School Society, the said society was authorized by law to convey their property to the city corporation, and to transfer their schools to the care of this Board, and, after appointing certain of their own Trustees to remain as school officers of the wards, including fitteen to be members of this Board, and, after appointing certain of their own Trustees to remain as school officers of the wards, including fitteen to be members of this Board, and ascensed to exist as a seperate corporation, therefore,

Resolved, That the Public School Society is entitled to the lasting gratitude of the people of this city, and of the friends of education generally, for their unremitted and successful efforts, continued through nearly half a century, in disseminating the blessings of education and virtue among thousands, who, otherwise would have been allowed to grow up in ignorance and vice.

Resolved, That we cordially welcome to their seats in this Beard, T. B. Stillman, L. W. Stevens, Peter Cooper, W. H. Neilson, J. P. Adams, Israel Russell, J. E. Collins, John Davenport, J. F. Depeyster, B. R. Wintbrop, C. E. Pierson, W. S. Coolidge, H. H. Barrow, Joseph Curtis, and J. W. C. Leveridge, who have been so relected, as members thereof, and that we rejoice in the confident hope that the cause of public education will be strengthened by the union now completed, and will receive at their hands the same faithful, intelligent, and distinguished service which it has hitherto received from their enlightened philanthropy and patrictism. Unanimously adopted.

The Clerk of the Board administered the oath of office to the new commissioners, who then took their seats as members of the Board.

The President having resumed the chair, On motion, the rules were amended, and the President appointed the following as additional members of the committees of the Board.

Glabben-klee, of the Free Academy, be \$350 a year. Adopted.

By the same—That Alfred G. Compton and George Hardy be appointed tutors in the Free Academy, at the salary fixed by the rules of the Board, to commence on the 7th of September next.

By Mr. Stuart—That notice be given to the trustees of the Fourteenth ward that this Board intend to consider the propriety of discontinuing primary Schools No. 17 and 47, located in Trustees' Hall.

Schools No. 17 and 47, located in Trustees' Half. Adopted.

By the same—That A. McKey be continued in charge of the carpenters' work until the further order of this Beard. Adopted.

By the same—That James C. Luckey be appointed assistant in the Clerk's office, at the salary heretofore paid him by the P. S. Society, until the further order of this Board. Adopted.

By the same—That the building occupied by the Beard be under the care of the Clerk, under the direction of the Board. To Committee on Buildings and Repairs.

and Repairs.

By Dr. Hibbard—That Joseph McKeen Be, and be is hereby, appointed City Superintendent of Common Schools, at a relary of \$2.000 per annum.

On motion of Mr. Waterbury, the following sub-

stitute was adopted:—
Resolved, That a committee of five be appointed

Resolved, That a committee of five be appointed to consider and report a system of superintendence for the schools under the charge of this Board.

Messrs. Reckman, Hibbard, Morand, Curtis and O Donnell were appointed as said cormittee.

By Dr. Williams—That it be referred to a committee to inquire into the expediency of securing the services of Samuel W. Seton, Esq., who for thirty years last past has been employed as agent of the Public School Society. To Committee on City Superintendence.

Mr. C. H. SMITH presented the report of the P nance Committee in favor of purchasing an additional lot for primary school in Thirty-seventh street.

Laid on the table.

Mr. W. Jones presented the report of the Com-

mittee on Buildings and Repairs, recommending plans for a primary school in Nineteenth street, nea First avenue. Referred to school officers of Fourteentl

ward.

The Board adjourned to Wednesday, August 3, at 5 o'clock P. M.

HEART-RENDING INCIDENT.—We are favored with the painful circumstances of the burning of the dwelling of Mr. King, of Auburn, Geanga co., Ohio, and the consequent dreadful death of two of his children. Mr. King was absent on business at the time of the sad occurrence, his wife and eight children being alone in the heuse. In the early part of the evening Mrs. King thought she detected the secut of something burning, and examined every part of the house, as she supposed, thoroughly. Coucluding it was a whim of hers, she retired. About 12 o'clock her supplicions were again groused, and a second time as she supposed, thoroughly. Coucluding it was a whim of hers, she retired. About 12 o'clock her suspicions were again sroused, and a second time she again searched the house. Coming to the same conclusion as before, she again went to sleep. About three in the merning she was aroused by the falling in of the roof of the woodshed. She immediately raised the alarm, and the children sleeping below were soon aware that the house was on fire. As we understood from the neighbors, the boys were sleeping up stairs. Being awakened by the cry of fire, the older brothers, passing through another room and awakening two younger brothers, (about ten or twelve years of age.) who they supposed would follow them, dashed below to render assistance. One of the brothers thus aroused ran to the head of the stairs to descend, but being met by a sheet of thome, turned and made good his escape at the window. Running with all possible speed to one of the neighbors he entered the house, and spread the alarm by eaying he had "got out safe, having burned his hands a little." The boy went to bed, and the most of the family rushed to the sense of conflagration to give aid to the sufferers. Information was given of the arrival of the boy, and, suppoying the other had followed him, the wretched lamily felt somewhat relieved. While the spectators were gazing into the faunes to see the Rarful fire make its dreadful havoe, the floor above fell into the cellar, and from the burning bed relied the limbless body of the boy—for the fire had already consumed the legs and arms. What a sight or dear friends. The body was rescued from the flames. The brother who had fied to the neighbors was then sought and found quiet in bed. On removing the clothes, his face, neck and oreast told the fearful story. The fire had probably reached his vitals. He complained only of his hands. A despatch was sent to the father, who arrived with all possible haste, and stood over his dying boy until the next day, when he expired. A DIVER SUFFOCATED .- We understand from the

A DIVER SUFFOCATED.—We understand from the celebrated diver, John Green, that a man named Wm. McDonnell was suffocated while engaged in exploring the wreck of the steamer Erie, above Silver creek, on Wednesday last. This was his first attempt at diving; but, being confident of success, he was engaged by the party having the wreck in charge, and made one descent without difficulty. The second time he remained under water longer than is usual, and when telegraphed to, made no response. Those in charge of the line immediately sought to raise him, but found it had caught in semething, making such a thing impossible. On Saturday evening, Green and another skilful diver, Martin Quigley, proxeded to Silver creek with their armor, and on Sunday morning went to the wreck, for the purpose of diving for the body. Arriving there, they found that the rope had become disentagled—in consequence of the buoys being cast about by the waves and wind—and they were able at once to draw up the corps of their comrade. An inquest was held, and a verdict rendered, that "deceased came to his death from apoplexy, caused by the pressure of the atmosphere, and in consequence of having to breathe the same air several times over." Mr. G. informs us that the head was much swellen, and blood had been forced from the invuth and ears. A similar accident, though less fatat in its results, occurred the day before—when another novice descended, and remained so long as to alarm the attendants, who inumediately drew him up and found him entirely unconscious. He, however, recevered.—Buffur Lapress, July 26.

Rew York Central Park.

AN ACT TO ALTER THE MAY OF THE CITY OF NEW YORK, BY LATING OF THE THE MAY.

AND TO AUTHORIES THE TAKING OF THE SALES, AND TO AUTHORIES THE TAKING OF THE SALES, TASED JULY 21, 1852.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

Sec. 1. All that piece or proved of land strate, lying, and being in the second and westerly by the Children of the State of the Ward of the city of New York, the Fifth avenue, and westerly by the Children of the State of the Logislature, entitled "an act relative to Improvement touching the laying out of streets and roads in the city of New York, and for other purposes," passed April 3, 1867; and the map by plan of sald-city is hereby altered necordingly.

Sec. 2. The Mayor, Alei-men, and commensity of the city of New York are hereby authorised to take the sale of the company of the city of New York into one sat, passed April, 6, 1813," and the several laws relating particularly to the city of New York into one sat, passed April, 6, 1813," and the several acts amendatory thereto, and the same are applicable to the said severa acts amendatory thereto as are applicable to the said severa acts amendatory thereto as are applicable to the said severa acts amendatory thereto as are applicable to the said severa acts amendatory thereto as are applicable to the laying out and taking public square, in the same manner and to the said severa acts amendatory thereto as are applicable to the laying out and taking public square, in the same manner and to the said severa acts amendatory thereto as are applicable to the laying out and taking public square, in the said place it said city, and as are now in force, shall apply to the taking and laying out of the prece of land above described as and for a public square, in the same manner and to the said severa acts amendatory thereto as are applicable to the laying out and taking public square upon the map of pala affects and the said and the said and the said and the said and the sa

The following is a copy of that act passed at the ecent extra session of the Legt lature:

AN ACT RECULATING THE HOURS OF LABOR ON PUBLIC WORKS.

The people of the State of New York, represented

The people of the State of New York, in Senate and Assembly, do enact as follows:

Sec. 1. Ten hours stall be deemed a day's work, in the absence of any agreement, for mechanics and laborers on all public works of this State.

Sec. 2. This act shall take effect immediately.

Railroad Intelligence.

Sec. 2. This act shall take effect immediately.

Railroad Intelligence,

MILWAUKIE AND MISSISSIPPI RAILROAD.

The Milwaukie Sentind monunces that the centract has been closed with Mr. A. L. Catin, of Burlington, Vt., for the completion of the Milwaukie and Mississippi Railroad, from Rock river to the Mississippi, at \$25,000 per mile, thoroughly equipped. The contractor engages to complete the road to Prairie du Chien by the 1st of Jahuary, 1868—less than eighteen months.

RUCHESTER AND PITTSEURG RAILROAD.

A permanent organization has been effected to build the connecting link of railroad between Portage and the State line, through Angelica, under the side of the "Rochester and Pittsburg Railroad Company."

FREMONT AND INDIANA RAILROAD.

We learn by the Fremont Journal that the construction of the whole line of this r ad has been let out. The road extends from Fremont to Lima, in Allen county, where it connects with the road row in course of construction from Dayton to Toledo; and it is proposed to extend the road to Union, on the Bellefontaine and indian-polis road, making important connections at that place with the west and southwest, and affording the most direct route from that point to Cleveland. At Fremont the road connects directly by lines already finished, with Cleveland, Toledo and Sandacky.

LAKE RUPERIOR RAILROAD.

We learn from the Lake Superior News of the 18th ult., that a railroad is in contemplation from St. Paul to Fond du Lac. Lake Superior a charter has been granted, a company organized, and the stock is all taken. The road will be from eighty to one hundred miles in length. It opens an outlet for the trade of the whole upper Mississippi region, and will bring into market a wast and fertile tract of land, now almost wholly cut of the world.

ENGYLLE AND DANVILLE RAILROAD.

The tedious survey of the route of this proposed improvement, says the Louisville Courser of the 26th inst. was completed last week. The result is quite as favorable as was anticipated. The line passes, through the countr

which the Board of Directors have elected Cyrenias Wait, Esq. president. The intention is to secure the services of a connectent corps of engineers, and make an accurate survey of the proposed route through Louisville as soon as practicable.

FOX RIVER VALLEY AND WISCONSIN CENTRAL RAILROAD LINES CONNECTED.

At the meeting of the Beard of Directors of the, Wisconsin Railwad, (says the Chicago Tribune of, the 26th oft.) beld at Erkhorn on Friday last, a contract was entered into by said Board and the Fox River Valley Railroad, by which a connection is secured between these roads at the State line, at Genca, Walworth county. This connection we regard as not only highly important to these roads, but to the interests of Chicago. By the construction of the Central to Genca, and the Fox River Valley Railroad thence to Elgin, where it connects with the Galema Ra'Iroad, a large and rich territory, the very heart of Wisconsin, is brought in direct communication with Chicago, and thus a large trade will be recurred which might otherwise be diverted by rival interests.

interests. ALLEGANY VALLEY RAILEGAD. The bolance of this read, from Aurora to the junction with the Atties and Fittering read, was let on the 27th July. Ten miles were immediately sub-let to a Rechester company, who are to go to work next week on the rection between Aurora and Hollands to it appears that the work is going about